

ABSTRACT

The method and device according to the present invention provides a control system, method and apparatus for synchronizing a reference signal to high frequency data signals. Pulses are accumulated before reaching the
5 integrator. Pulse accumulation is provided in a DLL clock and data recovery circuit. Pulses are accumulated using a ripple divider for rising transitions only. In another exemplary embodiment, pulses are accumulated using a ripple divider for both rising and falling transitions.